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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>	<u>Search result set</u>
L19	L18 and (HIV or EIAV or MLV)	1	<u>L19</u>	<u>results for Paper #7</u>
L18	6080912 [pn]	2	<u>L18</u>	
L17	L14 and rabies and pseudotype\$	5	<u>L17</u>	
L16	L14 and rabies near10 pseudotype\$	0	<u>L16</u>	
L15	L14 and rabies near G	0	<u>L15</u>	
L14	L13 and rabies	76	<u>L14</u>	
L13	L12 and retrovir\$ near5 vector\$	556	<u>L13</u>	
L12	dividing near5 non-dividing	1019	<u>L12</u>	
L11	"dividing and non-dividing"	0	<u>L11</u>	
L10	retrovir\$ near10 "dividing and non-dividing"	0	<u>L10</u>	
L9	retrovir\$ near5 "dividing and non-dividing"	0	<u>L9</u>	
L8	dividing near3 non near dividing	1360	<u>L8</u>	
L7	dividing near3 non-dividing	1019	<u>L7</u>	
L6	retrovir\$ and dividing near3 non-dividing	670	<u>L6</u>	
L5	retrovir\$ near5 dividing near3 non-dividing	81	<u>L5</u>	
L4	retrovir\$ near5 dividing near5 "non-dividing"	82	<u>L4</u>	
L3	retrovir\$ near5 dividing near5 non-dividing	82	<u>L3</u>	
L2	retrovir\$ near5 dividing near5 (non-dividing or non near dividing)	82	<u>L2</u>	
L1	retrovir\$ near10 dividing near5 (non-dividing or non near dividing)	118	<u>L1</u>	

END OF SEARCH HISTORY

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EIAV and pseudotype\$

15

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<u>L6</u>	EIAV and pseudotype\$	15	<u>L6</u>
<u>L5</u>	EIAV and pseudotype\$ and rabies	2	<u>L5</u>
<u>L4</u>	EIAV near10 pseudotype\$	3	<u>L4</u>
<u>L3</u>	L1 and equine	0	<u>L3</u>
<u>L2</u>	L1 and EIAV	0	<u>L2</u>
<u>L1</u>	6080912 [pn]	2	<u>L1</u>

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L18 and (HIV or EIAV or MLV)

1

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Database:**Search:**

L19

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WEST**Search Results - Record(s) 1 through 5 of 5 returned.** 1. Document ID: US 20010009772 A1

L17: Entry 1 of 5

File: PGPB

Jul 26, 2001

PGPUB-DOCUMENT-NUMBER: 20010009772
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20010009772 A1

TITLE: Retroviral packaging cell line

PUBLICATION-DATE: July 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verma, Inder M.	Solana Beach	CA	US	
Kafri, Tal	San Diego	CA	US	
Bushman, Frederic	Encinitas	CA	US	
Hansen, Mark	San Diego	CA	US	

US-CL-CURRENT: 435/325; 435/235.1, 435/236, 435/320.1, 435/366, 435/369, 435/440,
435/455, 435/456, 435/457, 435/458, 435/69.1, 435/69.3, 514/44, 530/350, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw	Desc	Image									

 2. Document ID: US 6291740 B1

L17: Entry 2 of 5

File: USPT

Sep 18, 2001

US-PAT-NO: 6291740

DOCUMENT-IDENTIFIER: US 6291740 B1

TITLE: Transgenic animals

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel, Robert D.	Hillpoint	WI		
Chan, Anthony W. S.	Aloha	OR		
Burns, Jane C.	LaJolla	CA		

US-CL-CURRENT: 800/23; 435/320.1, 435/325, 435/455, 800/14, 800/21, 800/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw	Desc	Image									

3. Document ID: US 6218181 B1

L17: Entry 3 of 5

File: USPT

Apr 17, 2001

US-PAT-NO: 6218181
DOCUMENT-IDENTIFIER: US 6218181 B1

TITLE: Retroviral packaging cell line

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Verma; Inder M.	Solana Beach	CA		
Kafri; Tal	San Diego	CA		
Bushman; Frederic	Encinitas	CA		
Hansen; Mark	San Diego	CA		

US-CL-CURRENT: 435/369; 435/325, 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc		Image							

KMC

 4. Document ID: US 6080912 A

L17: Entry 4 of 5

File: USPT

Jun 27, 2000

US-PAT-NO: 6080912
DOCUMENT-IDENTIFIER: US 6080912 A

TITLE: Methods for creating transgenic animals

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel; Robert D.	Hillpoint	WI		
Chan; Anthony W. S.	Aloha	OR		
Burns; Jane C.	La Jolla	CA		

US-CL-CURRENT: 800/23; 435/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc		Image							

KMC

 5. Document ID: US 5739018 A

L17: Entry 5 of 5

File: USPT

Apr 14, 1998

US-PAT-NO: 5739018
DOCUMENT-IDENTIFIER: US 5739018 A

TITLE: Packaging cell lines for pseudotyped retroviral vectors

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyano; Atsushi	San Diego	CA		
Yee; Jiing-Kuan	Del Mar	CA		
Chen; Shin-Tai	San Diego	CA		
Prussak; Charles Edward	San Diego	CA		
Friedmann; Theodore	La Jolla	CA		

US-CL-CURRENT: 435/456; 435/320.1, 435/325, 435/463

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L17: Entry 2 of 5

File: USPT

Sep 18, 2001

US-PAT-NO: 6291740
 DOCUMENT-IDENTIFIER: US 6291740 B1

TITLE: Transgenic animals

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bremel; Robert D.	Hillpoint	WI		
Chan; Anthony W. S.	Aloha	OR		
Burns; Jane C.	LaJolla	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Wisconsin Alumni Research Foundation	Madison	WI			02

APPL-NO: 9/ 329749 [PALM]
 DATE FILED: June 10, 1999

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of application Ser. No. 08/821,984 filed Mar. 20, 1997 now U.S. Pat. No. 6,080,912.

INT-CL: [7] C12 N 15/00, C12 N 15/09, C12 N 15/63, C12 N 15/70, A01 K 67/027

US-CL-ISSUED: 800/23, 800/14, 800/21, 800/25, 435/320.1, 435/325, 435/455
 US-CL-CURRENT: 800/23; 435/320.1, 435/325, 435/455, 800/14, 800/21, 800/25

FIELD-OF-SEARCH: 800/21, 800/23, 800/25, 800/14, 435/320.1, 435/325, 435/455

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5057420</u>	October 1991	Massey	800/24
<input type="checkbox"/> <u>5175384</u>	December 1992	Krimpenfort et al.	800/11
<input type="checkbox"/> <u>5453366</u>	September 1995	Sims et al.	800/24
<input type="checkbox"/> <u>5512421</u>	April 1996	Burns et al.	435/320.1
<input type="checkbox"/> <u>5523222</u>	June 1996	Page et al.	800/25
<input type="checkbox"/> <u>5550034</u>	August 1996	Teng et al.	435/69.1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO
90/08832
94/29440

PUBN-DATE
August 1990
December 1994

COUNTRY
WOX
WOX

US-CL

OTHER PUBLICATIONS

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 Sell et al., 1994, Carcinogenesis, 15, 2057-2060.*
 Adams et al., "Transduction of primary human hepatocytes with amphotropic and xenotropic retroviral vectors," Proc. Natl. Acad. Sci. USA 89:8981-8985 (1992).
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Yee et al., "Methods in Cell Biology," 43:99-112 (1994).

ART-UNIT: 162

PRIMARY-EXAMINER: Clark; Deborah J. R.

ASSISTANT-EXAMINER: Paras, Jr.; Peter

ATTY-AGENT-FIRM: Quarles & Brady LLP

ABSTRACT:

The present invention provides improved methods and compositions for the generation of transgenic non-human animals. The present invention permits the introduction of exogenous nucleic acid sequences into the genome of unfertilized eggs (e.g., pre-maturation oocytes and pre-fertilization oocytes) by microinjection of infectious retrovirus into the perivitelline space of the egg. The methods of the present invention provide an increased efficiency of production of transgenic animals with a reduced rate of generating animals which are mosaic for the presence of the transgene.

7 Claims, 4 Drawing figures